

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/856,114A
Source: IFW O
Date Processed by STIC: 1-6-4

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RE-RUN



IFWO

RAW SEQUENCE LISTING

DATE: 01/06/2005

PATENT APPLICATION: US/09/856,114A

TIME: 14:50:50

Input Set : N:\Crf4\Refhold\09_folder\I856114A.raw

Output Set: N:\CRF4\01062005\I856114A.raw

1 <110> APPLICANT: Hyo Jeong Hong
2 Chun Jeih Ryu
3 Hangsook Hur
4 <120> TITLE OF INVENTION: HUMANIZED ANTIBODY SPECIFIC FOR SURFACE
5 ANTIGEN PRE-S1 OF HBV AND PREPARATION METHOD THEREOF
6 <130> FILE REFERENCE: 118.13USWO
C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/856,114A
8 <141> CURRENT FILING DATE: 2001-05-18
9 <150> PRIOR APPLICATION NUMBER: PCT/KR99/00699
10 <151> PRIOR FILING DATE: 1999-11-19
11 <150> PRIOR APPLICATION NUMBER: 1998-49663
12 <151> PRIOR FILING DATE: 1998-11-19
13 <160> NUMBER OF SEQ ID NOS: 28
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial Sequence
20 <220> FEATURE:
21 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 1
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27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial Sequence
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35 <211> LENGTH: 18
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37 <213> ORGANISM: Artificial Sequence
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43 <210> SEQ ID NO: 4
44 <211> LENGTH: 27
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:

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48 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 4
49 <400> SEQUENCE: 4
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52 <210> SEQ ID NO: 5
53 <211> LENGTH: 27
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 5
58 <400> SEQUENCE: 5
59 gcattcagta gttcttggat gaactgg 27
61 <210> SEQ ID NO: 6
62 <211> LENGTH: 27
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence
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66 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 6
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70 <210> SEQ ID NO: 7
71 <211> LENGTH: 21
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
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76 <400> SEQUENCE: 7
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79 <210> SEQ ID NO: 8
80 <211> LENGTH: 39
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 8
85 <400> SEQUENCE: 8
86 ggatttgtct gcagtcagtg tggccttgcc ctggaactt 39
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89 <211> LENGTH: 39
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91 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 9
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98 <211> LENGTH: 33
99 <212> TYPE: DNA
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117 <212> TYPE: DNA
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127 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
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154 <213> ORGANISM: Artificial Sequence
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156 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 16
157 <400> SEQUENCE: 16

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164 <220> FEATURE:
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166 <400> SEQUENCE: 17
167 ctaatctatc tgggtctctaa actggactct ggagtcctt 39
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170 <211> LENGTH: 17
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
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174 <223> OTHER INFORMATION: Synthetic oligonucleotide primer 18
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178 <210> SEQ ID NO: 19
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180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Variable region of heavy chain in mouse KR127
184 antibody
185 <400> SEQUENCE: 19
186 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
187 1 5 10 15
188 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
189 20 25 30
190 Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
191 35 40 45
192 Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe
193 50 55 60
194 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
195 65 70 75 80
196 Met Gln Leu Ser Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys
197 85 90 95
198 Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
199 100 105 110
200 Val Ser Ala
201 115
203 <210> SEQ ID NO: 20
204 <211> LENGTH: 115
205 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Variable region of humanized heavy chain
209 HKR127HC (HZI)
210 <400> SEQUENCE: 20

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211      Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala
212      1              5              10              15
213      Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser
214              20              25              30
215      Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
216              35              40              45
217      Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
218              50              55              60
219      Gln Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
220      65              70              75              80
221      Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
222              85              90              95
223      Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
224              100              105              110
225      Val Ser Ser
226              115
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229 <211> LENGTH: 115
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Variable region of humanized heavy chain
234      HKR127HC(HZIII)
235 <400> SEQUENCE: 21
236      Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
237      1              5              10              15
238      Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser
239              20              25              30
240      Trp Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
241              35              40              45
242      Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Ala Gln Lys Phe
243              50              55              60
244      Gln Gly Arg Val Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr
245      65              70              75              80
246      Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
247              85              90              95
248      Ala Arg Glu Tyr Asp Glu Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
249              100              105              110
250      Val Ser Ser
251              115
253 <210> SEQ ID NO: 22
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258 <223> OTHER INFORMATION: Variable region of light chain in mouse KR127
259      antibody
260 <400> SEQUENCE: 22
261      Asp Ile Leu Met Thr Gln Thr Pro Leu Ile Leu Ser Val Thr Ile Gly
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VERIFICATION SUMMARY

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PATENT APPLICATION: US/09/856,114A

TIME: 14:50:51

Input Set : N:\Crf4\Refhold\09_folder\I856114A.raw

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L:7 M:270 C: Current Application Number differs, Wrong Format